	Application No.	Applicant(s)
Notice of Allowability	10/781,889	HUANG, FONG-CHING
	Examiner	Art Unit
	DON N. VO	2611
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to the application filed on 2/20/2004.		
2. The allowed claim(s) is/are <u>1-32</u> .		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	• •
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary Paper No./Mail Dat 	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 6/20/05 	7. Examiner's Amendo	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	nt of Reasons for Allowance
	9.	

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

References Djokovic et al (6,097,763), Gatherer et al (US 2002/0176509), Liang (US 2006/0062290), and Erving et al (US 2006/0115030) are cited because they are pertinent to the method and apparatus for initializing or training a time domain equalizer (TEQ) used in a receiver of a multi-carrier communication system. However, none of the cited references teaches or suggests method for initializing a time-domain equalizer (TEQ) comprised in a receiver of a multi-carrier communication system comprising, in combination, the arrangements of estimating a channel impulse response (CIR) h[n] according to a received symbol, wherein the received symbol includes a cyclic prefix with y points and a data portion with N points, wherein i=0-N-1; selecting one of a plurality of groups according to the total energy of the groups, wherein each group includes consecutive v points of the received symbol; modifying the channel impulse response (CIR) h[n] according to the selected group to generate a modified channel impulse response h' [n]; generating a target impulse response bin] according to the modified channel impulse response h'[n] and a window mask mini, wherein i=0-N- 1; transforming the channel impulse response (CIR) h[n] and the target impulse response b[n] to a frequency-domain to generate a frequency-domain channel impulse response H(i) and a frequency-domain target impulse response B(i) respectively, wherein i=0-N-1; and generating a frequency-domain impulse response W(i) of the time-domain equalizer according

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to the frequency-domain channel impulse response H(i) and the frequency-domain target impulse response B(i); wherein the frequency-domain target impulse response B(i) and the frequency-domain TEQ impulse response W(i) are for initializing the TEQ as recited in claim 1 and some variations of the method steps as recited in claims 14 and 22 and further limitations of their respective dependent claims 2-13, 15-21 and 23-32.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DON N. VO whose telephone number is (571) 272-3018. The examiner can normally be reached on Mon-Fri (9:00AM - 6:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JAY PATEL can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DON N. VO

Primary Examiner

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